

NALOXONE HYDROCHLORIDE- naloxone hydrochloride injection, solution
Hospira, Inc.

NALOXONE HYDROCHLORIDE

Injection, USP

Ampul, Fliptop Vial, Opioid Antagonist

Protect from light.

Rx only

DESCRIPTION

Naloxone Hydrochloride Injection, USP is a sterile, nonpyrogenic solution of naloxone hydrochloride in water for injection. Each milliliter (mL) contains 0.4 mg naloxone hydrochloride and sodium chloride to adjust tonicity in water for injection. May contain hydrochloric acid for pH adjustment; pH 4.0 (3.0 to 6.5).

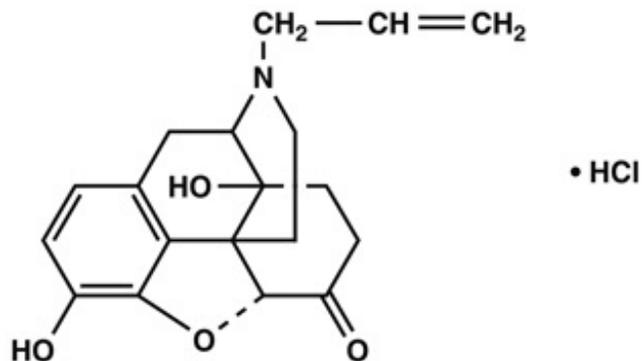
The single-dose solution contains no bacteriostat, antimicrobial agent or added buffer (except for pH adjustment) and is intended for use only as a single-dose injection. When smaller doses are required, the unused portion should be discarded.

The multiple-dose solution contains, in addition, 1.8 mg/mL methylparaben and 0.2 mg/mL propylparaben added as preservatives.

Naloxone Hydrochloride Injection, USP may be administered intravenously, intramuscularly, or subcutaneously.

Naloxone, an opioid antagonist, is a synthetic congener of oxymorphone. It differs from oxymorphone in that the methyl group on the nitrogen atom is replaced by an allyl group.

Naloxone Hydrochloride, USP is chemically designated 17-Allyl-4,5 α -epoxy-3,14-dihydroxymorphinan-6-one hydrochloride (C₁₉H₂₁NO₄ • HCl), a white to slightly off-white powder soluble in water, in dilute acids, and in strong alkali; slightly soluble in alcohol; practically insoluble in ether and chloroform. It has a molecular weight of 363.84. It has the following structural formula:



CLINICAL PHARMACOLOGY

Complete or Partial Reversal of Opioid Depression

Naloxone prevents or reverses the effects of opioids including respiratory depression, sedation and hypotension. Also, Naloxone can reverse the psychotomimetic and dysphoric effects of agonist-antagonists, such as pentazocine.

Naloxone is an essentially pure opioid antagonist, i.e., it does not possess the "agonistic" or morphine-like properties characteristic of other opioid antagonists. When administered in usual doses and in the absence of opioids or agonistic effects of other opioid antagonists, it exhibits essentially no pharmacologic activity.

Naloxone has not been shown to produce tolerance or cause physical or psychological dependence. In the presence of physical dependence on opioids, naloxone will produce withdrawal symptoms. However, in the presence of opioid dependence, opiate withdrawal symptoms may appear within minutes of naloxone administration and will subside in about 2 hours. The severity and duration of the withdrawal syndrome are related to the dose of naloxone and to the degree and type of opioid dependence.

While the mechanism of action of naloxone is not fully understood, *in vitro* evidence suggests that naloxone antagonizes opioid effects by competing for the mu, kappa, and sigma opiate receptor sites in the CNS, with the greatest affinity for the mu receptor.

When naloxone hydrochloride is administered intravenously, the onset of action is generally apparent within two minutes; the onset of action is slightly less rapid when it is administered subcutaneously or intramuscularly. The duration of action is dependent upon the dose and route of administration of naloxone hydrochloride. Intramuscular administration produces a more prolonged effect than intravenous administration. Since the duration of action of naloxone may be shorter than that of some opiates, the effects of the opiate may return as the effects of naloxone dissipates. The requirement for repeat doses of naloxone, however, will also be dependent upon the amount, type and route of administration of the opioid being antagonized.

Adjunctive Use in Septic Shock

Naloxone has been shown in some cases of septic shock to produce a rise in blood pressure that may last up to several hours; however this pressor response has not been demonstrated to improve patient survival. In some studies, treatment with naloxone in the setting of septic shock has been associated with adverse effects, including agitation, nausea and vomiting, pulmonary edema, hypotension, cardiac arrhythmias, and seizures. The decision to use naloxone in septic shock should be exercised with caution, particularly in patients who may have underlying pain or have previously received opioid therapy and may have developed opioid tolerance.

Because of the limited number of patients who have been treated, optimal dosage and treatment regimens have not been established.

PHARMACOKINETICS

Distribution

Following parenteral administration naloxone is rapidly distributed in the body and readily crosses the placenta. Plasma protein binding occurs but is relatively weak. Plasma albumin is the major binding constituent but significant binding of naloxone also occurs to plasma constituents other than albumin. It is not known whether naloxone is excreted into human milk.

Metabolism and Elimination

Naloxone is metabolized in the liver primarily by glucuronide conjugation with naloxone-3-glucuronide as the major metabolite. In one study, the serum half-life in adults ranged from 30 to 81 minutes (mean 64 ± 12 minutes). In a neonatal study, the mean plasma half-life was observed to be 3.1 ± 0.5 hours. After an oral or intravenous dose, about 25 to 40% of the drug is excreted as metabolites in urine within 6 hours, about 50% in 24 hours, and 60 to 70% in 72 hours.

INDICATIONS AND USAGE

Naloxone Hydrochloride Injection is indicated for the complete or partial reversal of opioid

depression, including respiratory depression, induced by natural and synthetic opioids including propoxyphene, methadone, and certain mixed agonist-antagonist analgesics: nalbuphine, pentazocine, buprenorphine and cyclazocine. Naloxone hydrochloride is also indicated for the diagnosis of suspected or known acute opioid overdose.

Naloxone may be useful as an adjunctive agent to increase blood pressure in the management of septic shock (see **CLINICAL PHARMACOLOGY, Adjunctive Use in Septic Shock**).

CONTRAINDICATIONS

Naloxone hydrochloride injection is contraindicated in patients known to be hypersensitive to naloxone hydrochloride or to any of the other ingredients contained in the formulation.

WARNINGS

Drug Dependence

Naloxone hydrochloride injection should be administered cautiously to persons, including newborns of mothers, who are known or suspected to be physically dependent on opioids. In such cases, an abrupt and complete reversal of opioid effects may precipitate an acute withdrawal syndrome.

The signs and symptoms of opioid withdrawal in a patient physically dependent on opioids may include but are not limited to, the following: body aches, diarrhea, tachycardia, fever, runny nose, sneezing, piloerection, sweating, yawning, nausea or vomiting, nervousness, restlessness or irritability, shivering or trembling, abdominal cramps, weakness, and increased blood pressure. In the neonate, opioid withdrawal may also include: convulsions, excessive crying, and hyperactive reflexes.

Repeat Administration

The patient who has satisfactorily responded to naloxone should be kept under continued surveillance and repeated doses of naloxone should be administered, as necessary, since the duration of action of some opioids may exceed that of naloxone.

Respiratory Depression Due to Other Drugs

Naloxone is not effective against respiratory depression due to non-opioid drugs and in the management of acute toxicity caused by levopropoxyphene. Reversal of respiratory depression by partial agonists or mixed agonist/antagonists, such as buprenorphine and pentazocine, may be incomplete or require higher doses of naloxone. If an incomplete response occurs, respirations should be mechanically assisted as clinically indicated.

PRECAUTIONS

General

In addition to naloxone, other resuscitative measures such as maintenance of a free airway, artificial ventilation, cardiac massage, and vasopressor agents should be available and employed when necessary to counteract acute opioid poisoning.

Abrupt postoperative reversal of opioid depression may result in nausea, vomiting, sweating, tremulousness, tachycardia, increased blood pressure, seizures, ventricular tachycardia and fibrillation, pulmonary edema, and cardiac arrest which may result in death. Excessive doses of naloxone in postoperative patients may result in significant reversal of analgesia and may cause agitation (see **PRECAUTIONS** and **DOSAGE AND ADMINISTRATION: Usage in Adults-Postoperative Opioid Depression**).

Several instances of hypotension, hypertension, ventricular tachycardia and fibrillation, pulmonary edema, and cardiac arrest have been reported in postoperative patients. Death, coma, and encephalopathy

have been reported as sequelae of these events. These have occurred in patients most of whom had pre-existing cardiovascular disorders or received other drugs which may have similar adverse cardiovascular effects. Although a direct cause and effect relationship has not been established, naloxone should be used with caution in patients with pre-existing cardiac disease or patients who have received medications with potential adverse cardiovascular effects such as hypotension, ventricular tachycardia or fibrillation and pulmonary edema. It has been suggested that the pathogenesis of pulmonary edema associated with the use of naloxone is similar to neurogenic pulmonary edema, i.e., a centrally mediated massive catecholamine response leading to a dramatic shift of blood volume into the pulmonary vascular bed resulting in increased hydrostatic pressures.

Drug Interactions

Large doses of naloxone are required to antagonize buprenorphine since the latter has a long duration of action due to its slow rate of binding and subsequent slow dissociation from the opioid receptor. Buprenorphine antagonism is characterized by a gradual onset of the reversal effects and a decreased duration of action of the normally prolonged respiratory depression. The barbiturate methohexital appears to block the acute onset of withdrawal symptoms induced by naloxone in opiate addicts.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Studies in animals to assess the carcinogenic potential of naloxone have not been conducted. Naloxone was weakly positive in the Ames mutagenicity and in the *in vitro* human lymphocyte chromosome aberration test but was negative in the *in vitro* Chinese hamster V79 cell HGPRT mutagenicity assay and in the *in vivo* rat bone marrow chromosome aberration study. Reproduction studies conducted in mice and rats at doses 4-times and 8-times, respectively, the dose of a 50 kg human given 10 mg/day (when based on surface area or mg/m^2), demonstrated no embryotoxic or teratogenic effects due to naloxone.

Use in Pregnancy:

Teratogenic Effects:

Teratology studies conducted in mice and rats at doses 4-times and 8-times, respectively, the dose of a 50 kg human given 10 mg/day (when based on surface area or mg/m^2), demonstrated no embryotoxic or teratogenic effects due to naloxone. There are, however, no adequate and well controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, naloxone hydrochloride should be used during pregnancy only if clearly needed.

Non-teratogenic Effects:

Risk-benefit must be considered before naloxone is administered to a pregnant woman who is known or suspected to be opioid-dependent since maternal dependence may often be accompanied by fetal dependence. Naloxone crosses the placenta, and may precipitate withdrawal in the fetus as well as in the mother. Patients with mild to moderate hypertension who receive naloxone during labor should be carefully monitored as severe hypertension may occur.

Use in Labor and Delivery

It is not known if naloxone hydrochloride injection affects the duration of labor and/or delivery. However, published reports indicated that the administration of naloxone during labor did not adversely affect maternal or neonatal status.

Nursing Mothers

It is not known whether naloxone is excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when naloxone hydrochloride is administered to a nursing woman.

Pediatric Use

Naloxone hydrochloride injection may be administered intravenously, intramuscularly, or

subcutaneously in children and neonates to reverse the effects of opiates. The American Academy of Pediatrics, however, does not endorse subcutaneous or intramuscular administration in opiate intoxication since absorption may be erratic or delayed. Although the opiate-intoxicated child responds dramatically to naloxone hydrochloride injection, he/she must be carefully monitored for at least 24 hours as a relapse may occur as naloxone is metabolized.

When naloxone hydrochloride injection is given to the mother shortly before delivery, the duration of its effects lasts only for the first two hours of neonatal life. It is preferable to administer naloxone hydrochloride injection directly to the neonate if needed after delivery. Naloxone has no apparent benefit as an additional method of resuscitation in the newly born infant with intrauterine asphyxia, which is not related to opioid use.

Usage in Pediatric Patients and Neonates for Septic Shock: The safety and effectiveness of naloxone hydrochloride injection in the treatment of hypotension in pediatric patients and neonates with septic shock have not been established. One study of two neonates in septic shock reported a positive pressor response; however, one patient subsequently died after intractable seizures.

Geriatric Use

Clinical studies of naloxone hydrochloride injection did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

Renal Insufficiency/Failure

The safety and effectiveness of Naloxone hydrochloride injection in patients with renal insufficiency/failure have not been established in well-controlled clinical trials. Caution should be exercised when Naloxone is administered to this patient population.

Liver Disease

The safety and effectiveness of naloxone hydrochloride injection in patients with liver disease have not been established in well-controlled clinical trials. Caution should be exercised when naloxone is administered to patients with liver disease.

ADVERSE REACTIONS

Postoperative

The following adverse events have been associated with the use of naloxone hydrochloride injection in postoperative patients: hypotension, hypertension, ventricular tachycardia and fibrillation, dyspnea, pulmonary edema, and cardiac arrest. Death, coma, and encephalopathy have been reported as sequelae of these events. Excessive doses of naloxone in postoperative patients may result in significant reversal of analgesia and may cause agitation (see **PRECAUTIONS** and **DOSAGE AND ADMINISTRATION; Usage in Adults-Postoperative Opioid Depression**).

Opioid Depression

Abrupt reversal of opioid depression may result in nausea, vomiting, sweating, tachycardia, increased blood pressure, tremulousness, seizures, ventricular tachycardia and fibrillation, pulmonary edema, and cardiac arrest which may result in death (see **PRECAUTIONS**).

Opioid Dependence

Abrupt reversal of opioid effects in persons who are physically dependent on opioids may precipitate an acute withdrawal syndrome which may include, but not limited to the following signs and symptoms: body aches, fever, sweating, runny nose, sneezing, piloerection, yawning, weakness, shivering or

trembling, nervousness, restlessness or irritability, diarrhea, nausea or vomiting, abdominal cramps, increased blood pressure, and tachycardia. In the neonate, opioid withdrawal may also include: convulsions, excessive crying, and hyperactive reflexes (see **WARNINGS**).

Adverse events associated with the postoperative use of naloxone hydrochloride injection are listed by organ system and in decreasing order of frequency as follows:

Cardiac Disorders: pulmonary edema, cardiac arrest or failure, tachycardia, ventricular fibrillation, and ventricular tachycardia. Death, coma, and encephalopathy have been reported as sequelae of these events.

Gastrointestinal Disorders: vomiting, nausea

Nervous System Disorders: convulsions, paraesthesia, grand mal convulsion

Psychiatric Disorders: agitation, hallucination, tremulousness

Respiratory, Thoracic, and Mediastinal Disorders: dyspnea, respiratory depression, hypoxia

Skin and Subcutaneous Tissue Disorders: nonspecific injection site reactions, sweating

Vascular Disorders: hypertension, hypotension, hot flashes, or flushing

See also **PRECAUTIONS** and **DOSAGE AND ADMINISTRATION; Usage in Adults, Postoperative Opioid Depression**

DRUG ABUSE AND DEPENDENCE

Naloxone hydrochloride injection is an opioid antagonist. Physical dependence associated with the use of naloxone hydrochloride injection has not been reported. Tolerance to the opioid antagonist effect of naloxone is not known to occur.

OVERDOSAGE

There is limited clinical experience with naloxone hydrochloride injection overdosage in humans.

Adult Patients

In one small study, volunteers who received 24 mg/70 kg did not demonstrate toxicity.

In another study, 36 patients with acute stroke received a loading dose of 4 mg/kg (10 mg/m²/min) of naloxone hydrochloride injection followed immediately by 2 mg/kg/hr for 24 hours. Twenty-three patients experienced adverse events associated with naloxone use, and naloxone was discontinued in seven patients because of adverse effects. The most serious adverse events were: seizures (2 patients), severe hypertension (1), and hypotension and/or bradycardia (3).

At doses of 2 mg/kg in normal subjects, cognitive impairment and behavioral symptoms, including irritability, anxiety, tension, suspiciousness, sadness, difficulty concentrating, and lack of appetite have been reported. In addition, somatic symptoms, including dizziness, heaviness, sweating, nausea, and stomachaches were also reported. Although complete information is not available, behavioral symptoms were reported to often persist for 2 to 3 days.

Pediatric Patients

Up to 11 doses of 0.2 mg naloxone (2.2 mg) have been administered to children following overdose of diphenoxylate hydrochloride with atropine sulfate. Pediatric reports include a 2½ year-old child who inadvertently received a dose of 20 mg naloxone for treatment of respiratory depression following overdose with diphenoxylate hydrochloride with atropine sulfate. The child responded well and recovered without adverse sequelae. There is also a report of a 4½ year-old child who received 11 doses during a 12-hour period, with no adverse sequelae.

Patient Management

Patients who experience a naloxone overdose should be treated symptomatically in a closely supervised environment. Physicians should contact a poison control center for the most up-to-date patient management information.

DOSAGE AND ADMINISTRATION

Naloxone Hydrochloride Injection, USP may be administered intravenously, intramuscularly, or subcutaneously. The most rapid onset of action is achieved by intravenous administration and it is recommended in emergency situations.

Since the duration of action of some opioids may exceed that of naloxone, the patient should be kept under continued surveillance. Repeated doses of naloxone should be administered, as necessary.

Intravenous Infusion: Naloxone Hydrochloride Injection, USP may be diluted for intravenous infusion in 0.9% sodium chloride injection or 5% dextrose injection. The addition of 2 mg of naloxone hydrochloride in 500 mL of either solution provides a concentration of 0.004 mg/mL. Mixtures should be used within 24 hours. After 24 hours, the remaining unused solution must be discarded. The rate of administration should be titrated in accordance with the patient's response.

Naloxone Hydrochloride Injection, USP should not be mixed with preparations containing bisulfite, metabisulfite, long-chain or high molecular weight anions, or any solution having an alkaline pH. No drug or chemical agent should be added to Naloxone Hydrochloride Injection, USP unless its effect on the chemical and physical stability of the solution has first been established.

General

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration whenever solution and container permit.

Usage in Adults:

Opioid Overdose—Known or Suspected: An initial dose of 0.4 mg to 2 mg of naloxone hydrochloride may be administered intravenously. If the desired degree of counteraction and improvement in respiratory functions is not obtained, it may be repeated at 2 to 3 minute intervals. If no response is observed after 10 mg of naloxone hydrochloride have been administered, the diagnosis of opioid induced or partial opioid induced toxicity should be questioned. Intramuscular or subcutaneous administration may be necessary if the intravenous route is not available.

Postoperative Opioid Depression: For the partial reversal of opioid depression following the use of opioids during surgery, smaller doses of naloxone hydrochloride are usually sufficient. The dose of naloxone should be titrated according to the patient's response. For the initial reversal of respiratory depression, naloxone hydrochloride should be injected in increments of 0.1 to 0.2 mg intravenously at two to three minute intervals to the desired degree of reversal, i.e., adequate ventilation and alertness without significant pain or discomfort. Larger than necessary dosage of naloxone may result in significant reversal of analgesia and increase in blood pressure. Similarly, too rapid reversal may induce nausea, vomiting, sweating or circulatory stress.

Repeat doses of naloxone may be required within one to two hour intervals depending upon the amount, type (i.e., short or long acting) and time interval since last administration of opioid. Supplemental intramuscular doses have been shown to produce a longer lasting effect.

Septic Shock: The optimal dosage of Naloxone or duration of therapy for the treatment of hypotension in septic shock patients has not been established (see **CLINICAL PHARMACOLOGY**).

Usage in Pediatric Population:

Opioid Overdose—Known or Suspected: The usual initial dose in pediatric patients is 0.01 mg/kg body weight given I.V. If this dose does not result in the desired degree of clinical improvement, a subsequent dose of 0.1 mg/kg body weight may be administered. If an I.V. route of administration is not

available, Naloxone Hydrochloride may be administered I.M. or S.C. in divided doses. If necessary, Naloxone Hydrochloride Injection, USP can be diluted with sterile water for injection.

Postoperative Opioid Depression: Follow the recommendations and cautions under **Adult Postoperative Depression**. For the initial reversal of respiratory depression, naloxone hydrochloride should be injected in increments of 0.005 mg to 0.01 mg intravenously at two to three minute intervals to the desired degree of reversal.

Usage in Neonates:

Opioid-Induced Depression: The usual initial dose is 0.01 mg/kg body weight administered I.V., I.M., or S.C. This dose may be repeated in accordance with adult administration guidelines for postoperative opioid depression.

Do not administer unless solution is clear and container is undamaged. Discard unused portion.

HOW SUPPLIED

Naloxone Hydrochloride Injection, USP is supplied in the following:

NDC No.	Concentration
0409-1215-01 Carton of 10 - Single-dose Fliptop Vials	0.4 mg/1 mL (0.4 mg/mL)
0409-1219-01 Case of 25 Cartons (Each Carton includes 1 Multiple-dose Fliptop Vial)	4 mg/10 mL (0.4 mg/mL)
0409-1212-01 Carton of 10 - Single-dose Ampuls	0.4 mg/1 mL (0.4 mg/mL)

Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

Protect from light.

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA

LAB-1216-5.0

Revised: 8/2019

PRINCIPAL DISPLAY PANEL - 1 mL Vial Label

NDC 0409-1215-21

1 mL Single-dose

NALOXONE HCl
Injection, USP 0.4 mg/mL

For I.V., I.M., or S.C. use.

Protect from light.

Rx only

Hospira

Distributed by

Hospira, Inc., Lake Forest, IL 60045 USA

1 mL Single-dose NDC 0409-1215-21

NALOXONE HCl

Injection, USP 0.4 mg/mL

For I.V., I.M., or S.C. use.
Protect from light. Rx only

Distributed by Hospira
Hospira, Inc., Lake Forest, IL 60045 USA

FPO/7.5 Mil

RL-7493

##-##-##-AA
DMMYY

PRINCIPAL DISPLAY PANEL - 1 mL Vial Carton

1 mL Single-dose Fliptop Vial

NDC 0409-1215-01

Contains 10 of NDC 0409-1215-21

NALOXONE HYDROCHLORIDE

Injection, USP

Rx only

0.4 mg/mL

Protect from light.

Store at 20 to 25°C (68 to 77°F).

[See USP Controlled Room Temperature.]

Hospira



CA7231

1 mL Single-dose Fliptop Vial

NDC 0409-1215-01
Contains 10 of NDC 0409-1215-21

NALOXONE HYDROCHLORIDE

Injection, USP

Rx only

0.4 mg/mL



(01)10304091215013

Protect from light.
Store at 20 to 25°C (68 to 77°F).
[See USP Controlled Room Temperature.]



[See USP Controlled Room Temperature.]
Store at 20 to 25°C (68 to 77°F).
Protect from light.

0.4 mg/mL
Injection, USP
NALOXONE HYDROCHLORIDE

1 mL Single-dose Fliptop Vial
NDC 0409-1215-01

Each mL contains naloxone hydrochloride 0.4 mg; sodium chloride added to adjust tonicity. May contain hydrochloric acid for pH adjustment. 0.31 mOsmol/mL (calc.) pH 4.0 (3.0 to 6.5)

USE ASEPTIC TECHNIQUE.
Remove cover from Fliptop vial and cleanse stopper with

Distributed by Hospira, Inc., Lake Forest, IL 60045 USA

CA-7231



GTIN 10304091215013
LOT #####AA
SN #####
EXP DMMMYYYY

antiseptic.
Sterile, nonpyrogenic. For intravenous, intramuscular or subcutaneous use. Usual dosage: See insert. Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.] Protect from light by retaining in carton until ready for use. Discard unused portion.

PRINCIPAL DISPLAY PANEL - 10 mL Vial Label

10 mL Multiple-dose

NALOXONE HCl Inj., USP
4 mg/10 mL (0.4 mg/mL)

Protect from light.
For I.V., I.M. or S.C. use.

Dist. by Hospira, Inc., Lake Forest, IL 60045 USA

LOT ##-###-AA

EXP DMMMYYYY

10 mL Multiple-dose

NALOXONE HCl Inj., USP
4 mg/10 mL (0.4 mg/mL)

Protect from light. For I.V., I.M. or S.C. use.

Dist. by Hospira, Inc., Lake Forest, IL 60045 USA

Rx only NDC 0409-1219-41
Sterile, nonpyrogenic. Sodium chloride added to adjust tonicity. May contain HCl for pH adjustment. pH 4.0 (3.0 to 6.5). Store at 20 to 25°C (68 to 77°F). Usual dosage: See insert. RL-7494

LOT ##-###-AA

EXP DMMMYYYY



PRINCIPAL DISPLAY PANEL - 10 mL Vial Carton

One Unit/NDC 0409-1219-41

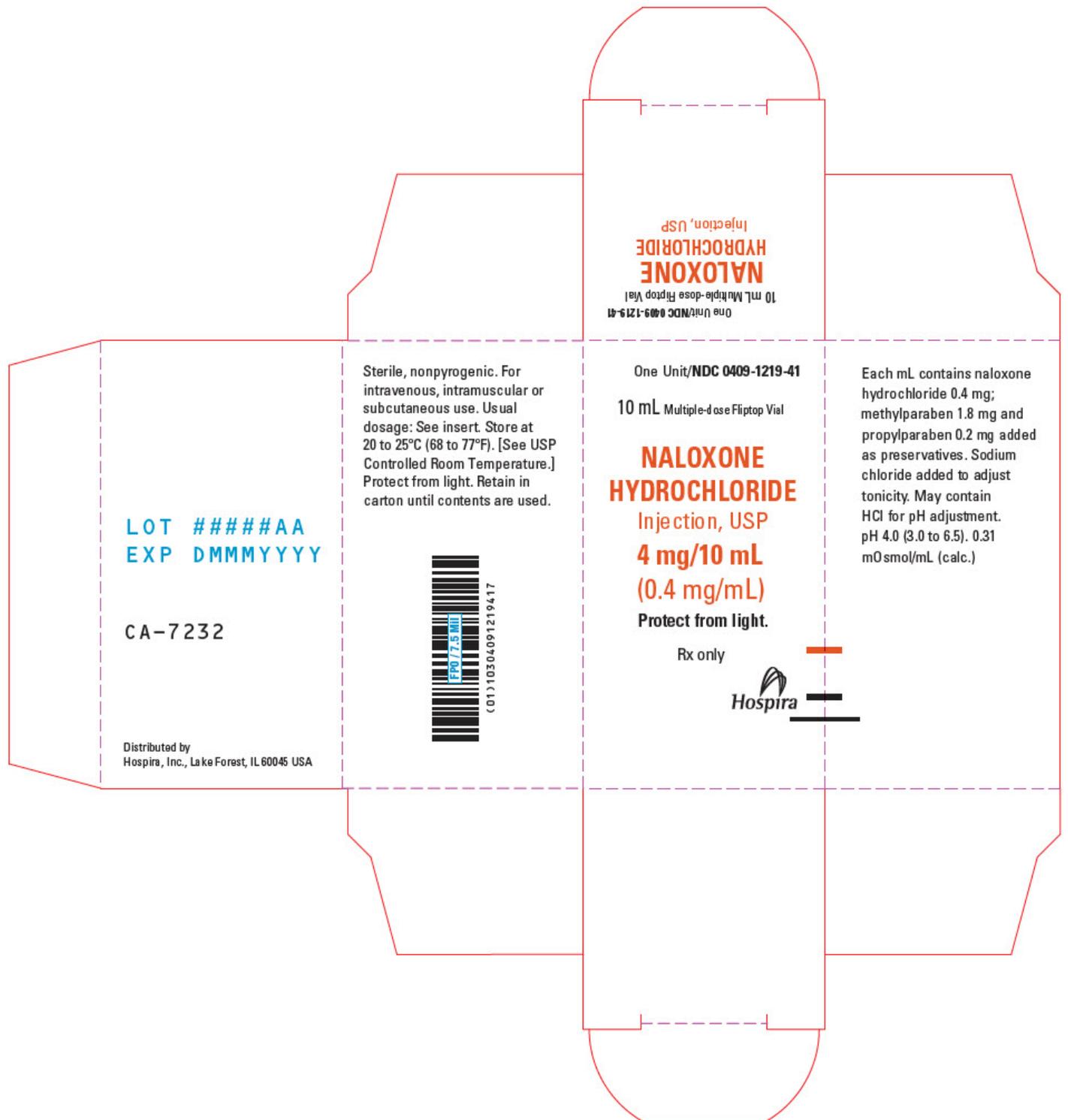
10 mL Multiple-dose Fliptop Vial

NALOXONE
HYDROCHLORIDE
Injection, USP
4 mg/10 mL
(0.4 mg/mL)

Protect from light.

Rx only

Hospira



One Unit/NDC 0409-1219-41
10 mL Multiple-dose Flip-top Vial
**NALOXONE
HYDROCHLORIDE**
Injection, USP

One Unit/NDC 0409-1219-41

10 mL Multiple-dose Flip-top Vial

**NALOXONE
HYDROCHLORIDE**

Injection, USP

4 mg/10 mL

(0.4 mg/mL)

Protect from light.

Rx only



Sterile, nonpyrogenic. For intravenous, intramuscular or subcutaneous use. Usual dosage: See insert. Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.] Protect from light. Retain in carton until contents are used.



(01)10304091219417

LOT ####AA
EXP DMMYYYY

CA-7232

Distributed by
Hospira, Inc., Lake Forest, IL 60045 USA

Each mL contains naloxone hydrochloride 0.4 mg; methylparaben 1.8 mg and propylparaben 0.2 mg added as preservatives. Sodium chloride added to adjust tonicity. May contain HCl for pH adjustment. pH 4.0 (3.0 to 6.5). 0.31 mOsmol/mL (calc.)

PRINCIPAL DISPLAY PANEL - 1 mL Ampul Label

NDC 0409-1212-01

1 mL
Rx only

Naloxone HCl
Injection, USP
0.4 mg/mL

Protect from light.
For I.V., I.M., S.C. use.

RL-0589 (9/04)

Hospira

Hospira, Inc.
Lake Forest, IL 60045 USA

NDC 0409-1212-01
1 mL Rx only
Naloxone HCl
Injection, USP
0.4 mg/mL
Protect from light.
For I.V., I.M., S.C. use.
RL-0589 (9/04)
Hospira, Inc. 
Lake Forest, IL 60045 USA


PRINCIPAL DISPLAY PANEL - 1 mL Ampul Tray

1 mL
10 Single-dose Ampuls
NDC 0409-1212-01

NALOXONE HYDROCHLORIDE Injection, USP
0.4 mg/mL

For I.M., I.V. or S.C. use.
Protect from light.
Keep ampuls in tray until time of use.

Each mL contains naloxone hydrochloride 0.4 mg; sodium chloride added to adjust tonicity. pH adjusted with hydrochloric acid. 0.31 mOsmol/mL (calc.). pH 4.0 (3.0 to 6.5). Usual dosage: See insert. Store at 20 to 25°C (68 to 77°F). [See USP Controlled Room Temperature.]

Rx only

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HOSPIRA, INC., LAKE FOREST, IL 60045 USA

RL-0590 (9/04)

1 mL 10 Single-dose Ampuls

NDC 0409-1212-01

NALOXONE HYDROCHLORIDE Injection, USP

0.4 mg/mL

For I.M., I.V. or S.C. use.

Protect from light.
Keep ampuls in tray until time of use.

Each mL contains naloxone hydrochloride 0.4 mg; sodium chloride added to adjust tonicity. pH adjusted with hydrochloric acid. 0.31 mOsmol/mL (calc.). pH 4.0 (3.0 to 6.5). Usual dosage: See insert. Store at 20 to 25°C (68 to 77°F). **Rx only**
[See USP Controlled Room Temperature.]

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RL-0590 (9/04)

NALOXONE HYDROCHLORIDE

naloxone hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-1215
Route of Administration	INTRAMUSCULAR, INTRAVENOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
NALOXONE HYDROCHLORIDE (UNII: F850569PQR) (NALOXONE - UNII:36B82AMQ7N)	NALOXONE HYDROCHLORIDE	0.4 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
WATER (UNII: 059QF0KO0R)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-1215-	10 in 1 CARTON	07/12/2005	

1	01	10 in 1 CARTON	07/12/2005	
1	NDC:0409-1215-21	1 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA070256	07/12/2005	

NALOXONE HYDROCHLORIDE

naloxone hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-1219
Route of Administration	INTRAMUSCULAR, INTRAVENOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
NALOXONE HYDROCHLORIDE (UNII: F850569PQR) (NALOXONE - UNII:36B82AMQ7N)	NALOXONE HYDROCHLORIDE	0.4 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
WATER (UNII: 059QF0K00R)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	
METHYL PARABEN (UNII: A2I8C7HI9T)	1.8 mg in 1 mL
PROPYL PARABEN (UNII: Z8IX2SC1OH)	0.2 mg in 1 mL

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-1219-01	25 in 1 CASE	09/02/2005	
1		1 in 1 CARTON		
1	NDC:0409-1219-41	10 mL in 1 VIAL, MULTI-DOSE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA070257	09/02/2005	

NALOXONE HYDROCHLORIDE

naloxone hydrochloride injection, solution

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0409-1212
Route of Administration	INTRAMUSCULAR, INTRAVENOUS, SUBCUTANEOUS		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
NALOXONE HYDROCHLORIDE (UNII: F850569PQR) (NALOXONE - UNII:36B82AMQ7N)	NALOXONE HYDROCHLORIDE	0.4 mg in 1 mL

Inactive Ingredients

Ingredient Name	Strength
SODIUM CHLORIDE (UNII: 451W47IQ8X)	
WATER (UNII: 059QF0KO0R)	
HYDROCHLORIC ACID (UNII: QTT17582CB)	

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:0409-1212-01	10 in 1 TRAY	06/20/2005	01/01/2012
1		1 mL in 1 AMPULE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA070254	06/20/2005	01/01/2012

Labeler - Hospira, Inc. (141588017)

Establishment

Name	Address	ID/FEI	Business Operations
Hospira, Inc.		093132819	ANALYSIS(0409-1212, 0409-1215, 0409-1219) , LABEL(0409-1212, 0409-1215, 0409-1219) , MANUFACTURE(0409-1212, 0409-1215, 0409-1219) , PACK(0409-1212, 0409-1215, 0409-1219)

Establishment

Name	Address	ID/FEI	Business Operations
Hospira, Inc.		827731089	ANALYSIS(0409-1212, 0409-1215, 0409-1219)

